

GOVERNMENT OF
THE VIRGIN ISLANDS OF THE UNITED STATES

o

DEPARTMENT OF PROPERTY AND PROCUREMENT

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INVITATION FOR BIDS

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Invitation No. IFB007VITT16 (C) Date: May 11, 2016

Pursuant to Laws of the Government of the Virgin Islands sealed bids in Quintuplicate (5 copies) or the work described herein will be received until **May 25, 2016 at 10:00 a.m.** at the **Department of Property and Procurement** and publicly opened thereafter.

Description of Work and Project Number: IFB007VITT16 (C) Security Fence Installation at VITEMA 8221 Nisky, St. Thomas, VI

Pre Bid Conference: A Pre Bid Conference will be held on **Wednesday May 18, 2016** at **10:00 a.m.**, at the Department of Property and Procurement, 8201 Subbase, 3rd Floor St. Thomas, Virgin Islands 00802.

Cost Per Set: \$50.00 NON REFUNDABLE

Liquidated Damages: \$75.00

Completion Time of Work: 60 calendar days

*****Note** Selected Vendor will receive 35% of project cost upfront, once all licenses and permits are in place, to cover labor and materials.***

Information regarding bidding documents

Bidding Documents include the Public Notice, this Invitation to Bid, Instruction to Bidders, Contractor's Qualification Statement, the Contract, Performance and Payment Bonds, General Provisions, Special Provision, Supplemental Specifications, Plan and Specifications. All documents may be obtained from the Department of Property and Procurement.

Each bid must be accompanied by a Bid Guarantee as provided for in Form No. P&P-ITB-CC-16-73 (Instruction to Bidders) which is hereby made a part of this Invitation and by this reference incorporated herein as fully and effectively as if set forth in detail. Bid Guarantee for Preferred Bidders will be as specified in 31 V.I.C. 236a (Act No. 2995 approved April 16, 1971) if Preferred Bidders Act applies. If Preferred Act does not apply, failure to provide a Five (5%) percent bond will render the bid unresponsive. It is the Bidder's responsibility to determine if the Act Applies.

The Bid Guarantee for bidders not claiming or having the status of a preferred bidder will be Five (5%) per cent of the bid price. Bid Guarantee will be in the form of a Bond (Corporate or Individual Surety), Money Order, Certified Check, Irrevocable Letter of Credit or Cash.

No Bidder will be allowed to withdraw his bond within a period of thirty (30) calendar days following the date set for the opening thereof.

Preferred Bidder:

Any bidder claiming eligibility as a "preferred bidder" under the provision of the Preferred Bidder's Act (31 VIC 236a – Act No. 2995, approved April 16, 1971) must request that his name be added to a preferred bidder's list to be maintained by the Commissioner of Property and procurement.

If a bidder has not previously filed a notarized Certificate with the Commissioner of Property and Procurement, copies thereof may be obtained from the Department of Property and Procurement, Division of Procurement, Building No. 1, Submarine Base, Third Floor, St. Thomas, Virgin Islands and/or from 3274 Estate Richmond, Christiansted, St. Croix, Virgin Islands.

Certifies must be fully completed, notarized and filed in the Division of Procurement before the day and hour set for bid opening.

Contractor's Qualification Statement

Each bidder must submit with his bid an executed copy of Contractor's Qualification Statement which is hereby made a part of this Invitation and by this reference incorporated herein as fully and effectively as if set forth in detail.

BONDS:

A Bid Bond, Performance Bond and Payment each are required as follows:

Bid Bond:	5% of the Contract
Performance Bond:	100% of the Contract
Payment Bond:	100% of the Contract

**VIRGIN ISLANDS TERRITORIAL
EMERGENCY MANAGEMENT
AGENCY (VITEMA) SECURITY
FENCE INSTALLATION PROJECT**

**SCOPE OF WORK
AND
SPECIFICATIONS**

SCOPE OF WORK

This Scope of Work is for the Virgin Islands Territorial Emergency Management Agency (VITEMA) Security Fence Installation at 8221 Nisky, St. Thomas, VI 00802. All work shall be done in accordance with the Plans, Manufactures Specifications, Bid Schedule and Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP-03), the Virgin Island Building Codes and the direction of the Project Engineer in writing.

1. Prior to the commencement of Work by Contractor, contractor will have all applicable bonds, licenses, sureties and permits in place prior to the commencement of work.
2. Contractor shall be exclusively responsible for the safety, security, and condition of all of materials and equipment and personal stored/working on the construction site, and no such stored or loose materials shall be deemed a part of the Project until after the same have been properly installed by the Contractor in the Project, accepted and paid for by the Contractor. Contractor shall exclusively bear the risk of loss of such stored materials prior to proper installation even if the stored material has been paid for by the contractor.
3. Further, Contractor shall be responsible for any damages done to material, equipment or property by its workforce, subcontractors, or vendors.
4. Unless otherwise authorized in writing in advance by the Contractor, Contractor states that the Work performed under this Agreement will be performed by the Contractor and his regularly employed employees.
5. Not later than the time of delivery of materials to the job site, Contractor shall provide all "materials safety data sheets" pertaining to materials being brought onto the site. Contractor further agrees that it shall comply with all local, federal laws, ordinances and regulations in connection with the Contractor's Work including, but -not limited to OSHA Standards, Rules and Regulations.
6. During the term of this Agreement, Contractor shall pay particular attention to the daily clean up and removal of all trash and rubbish generated on the job site by the Contractor or its vendors. Contractor shall be responsible for the removal of all rubbish and trash it has generated, from its work area on a daily basis and place all such rubbish and trash in waste containers located throughout the Project. In the event Contractor fails to perform this daily cleaning and trash removal agreement, Contractor may assess a portion of the cost of daily clean up of the job site including, but not limited to, the cost of the maintenance of said trash and rubbish receptacles against the Contractor in the form of a negative change order after fair and prior notice has been given.
7. Upon the completion of the Contractor's Work, and when practical, the Contractor shall furnish the User Agency with a warranty acceptable in all respects to the User Agency to repair and/or -replace at the Contractor's sole expense all defects in materials and labor in the Contractor's Work appearing or occurring within one (1) year after the issuance of the certificate of occupancy of the premises upon which Subcontractor's Work is performed. Additionally, in the event the manufacturer of any material supplied by the Contractor to the Project exceeds the term of the Subcontractor's letter of credit or warranty, The Contractor shall further assign and deliver to the User Agency said manufacturer's warranty. Performance of warranty repair work and replacement of materials for defects occurring within the warranty period shall be the Contractor's sole and exclusive

responsibility at the Contractor's sole and exclusive expense.

8. Any Work that is in addition to the work required by this Subcontract shall be construed as extra work ("**EXTRA WORK**"). Extra Work will be subject to prior written approval by the Department of Public Works and shall be granted or denied prior to the execution of any such Extra Work. Approved Extra Work shall be subject to the execution of a change order signed by an authorized representative of the Contractor and the Owner or Contractor which shall be executed prior to the furnishing of such materials or performance of such labor or both. Any Extra Work not so authorized in advance shall be performed or furnished at the sole expense of the Contractor, and neither the Contractor nor the Owner shall be liable or responsible to the Contractor for the payment of any such Extra Work. Extra work must be approved before it is done.
9. All materials supplied or used by the Contractor in the performance of its Work shall be as specified and approved by the Department of Public Works. Contractor shall submit all such materials to the Department of Public Works for approval prior to the installation thereof on the premises unless otherwise agreed or waived by the Department of Public Works in writing. All work and materials will be per the plans and specifications provided unless authorized in writing prior to starting the work.
10. If job is subject to inclement weather it is the responsibility of the Contractor to keep track of these days and present to the Department of Public Works on a weekly basis to compare against their daily log. Days that are in agreement will be placed in a change order format and will be presented with scheduled monthly payment.
11. The Contractor is contracted to provide complete construction, including code requirements, and workmanship of equal or better finishes based on the VI Building Code and to the intent of the contract documents. It is common and known that items of importance are sometimes overlooked in drawings and in specifications. If missing items would normally be included in a particular scope of work, or required for the completion of a particular trades work, then it is included in this contract and not an opportunity for change order.
12. Contractor agrees to perform all work in a good and workmanlike manner and in accordance with the highest standards of the industry in their trades, and as a minimum, the work shall be in accordance with all local, national codes, laws, ordinance and regulations, whichever governs, whether or not so indicated in the plans and specifications. It is the intent that the work be completed in all respects for the use intended as a part of this general scope.
13. Contractor agrees to furnish all labor, supervision, fasteners, tools, taxes, equipment, fuel fees, licenses, insurance and all other costs as required to perform all work covered in the construction scope of the applicable division that this Contractor represents itself as having expert knowledge in and regular engagement with.
14. Contractor shall call and cause all required inspections for his own work and convey all inspection results to the DPW Inspector/Engineer. If unsatisfactory results are discovered, this Contractor will immediately suspend its construction activities until such work is corrected and inspections are passed.

15. Upon award of this contract, Contractor shall perform due diligence and shall prepare all necessary basic diagrams or layouts outlining his/her concerns. If value engineering or alterations to the plans/specifications is involved, such shall be presented to the Department of Public Works prior to the execution of the contract.
16. Contractor shall commence the work to be performed per the contract documents in accordance to the terms of this agreement commencing on the date specified and provided by the User Agency and shall complete all work by the finish date specified on the Construction Schedule or as adjusted from time to time by the Department of Public Works.
17. Under **NO CIRCUMSTANCES** will there be additional money granted for extra work without previous written authorization and executed change order from the User Agency.
18. Contractor shall be completely responsible and provide equipment for receiving, unloading, taking inventory, storing, protecting and signing for all materials installed under this agreement.
19. This Contractor will verify all detail and dimensions for fit of work in all regards.
20. Contractor acknowledges that he will provide the necessary manpower, required to maintain the project schedule in all phases of his work to include any required overtime.
21. Hard Hats are a requirement of this contract.
22. Provide Material Safety Data Sheets (MSDS) for all materials being provided or utilized under this Contract agreement. And its written OSHA policy and written Hazardous Materials Policy before work commences.
23. Contractor will keep onsite material stockpiles and building workspace stockpiles to a minimum, organized and out of the way so as not to impede any other trades, and as directed by the Construction Manager.
24. Contractor is responsible for loss, theft and damage of all materials installed or otherwise until such material has been installed, approved and paid for by Contractor.
25. Contractor reserves the right, to supplement work after proper notification of non-performance has been given.
26. Contractor will furnish the names of the Subcontractors it introduces to the project.
27. Contractor will disclose the amounts of money owed to each subcontractor and submit proper lien waivers.
28. Contractor shall make himself/herself available for either weekly or biweekly meetings (as mutually agreed upon with the Department of Public Works) to discuss project progress/concerns. Any problems deemed an emergency shall be **IMMEDIATELY** made known to the Department of Public Works.

The undersigned Contractor shall furnish all labor, equipment, machinery, material and miscellaneous items for the completion of the Project as outlined in the Contact Drawings, Specifications and Bid Schedule.

AMERISTAR FENCE PRODUCTS
PermaCoat® PC-20™ Color Chain Link Framework – Commercial Weight
CONSTRUCTION SPECIFICATION – 32 31 13

PART 1 – GENERAL

1.01 WORK INCLUDED

The contractor shall provide all labor, materials and appurtenances necessary for installation of the color chain link fencing system defined herein at **Virgin Islands Territorial Emergency Management Agency (VITEMA) 8221 Nisky, St. Thomas.**

1.02 RELATED WORK

Section 02500 – Paving and Surfacing
Section 03300 – Case-In-Place Concrete
Section 04200 – Unit Masonry

1.03 SYSTEM DESCRIPTION

The contractor shall supply a total color chain link fencing system of the design, style and strength defined herein. The system shall include all components (i.e., framework, chain link fabric, gates and fittings) required.

1.04 QUALITY ASSURANCE

The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.05 REFERENCES

A. American Society for Testing and Materials (ASTM) Standards: A90/A90M - Test Method for Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings. A653/A653M - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process. A924/A924M - Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process. B6 - Specification for Zinc. B117 - Practice for Operating Salt Spray (Fog) Apparatus. D1499 - Practice for Operating Light- and Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics. D3359 - Test Methods for Measuring Adhesion by Tape Test. E8/E8M - Test Methods for Tension Testing of Metallic Materials. F567 - Practice for Installation of Chain-Link Fence. F626 - Specification for Fence Fittings. F668 - Specification for Poly (Vinyl Chloride) (PVC)-Coated Steel Chain-Link Fence Fabric. F900 - Specification for Industrial and Commercial Swing Gates. F934 - Specification for Standard Colors for Polymer-Coated Chain Link Fence Materials. F969 - Practice for Construction of Chain-Link Tennis Court Fence. F1043 - Specification for Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework. F1184 - Specification for Industrial and Commercial Horizontal Slide Gates.

B. American Association of State Highway and Transportation Officials (AASHTO) Standards: M181 - Standard Specification for Chain-Link Fence.

C. United States Federal Supply Service General Services Administration Specifications: RR-F-191/3 - Federal Specification Sheet for Fencing, Wire and Post, Metal (Chain-Link Fence Posts, Top Rails and Braces) - Detail Specification.

1.06 SUBMITTAL

The manufacturer's literature shall be submitted prior to installation.

1.07 PRODUCT HANDLING AND STORAGE

Upon receipt at the job site, all materials shall be checked to ensure that no damages occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage and to protect against damage, weather, vandalism and theft.

PART 2 - MATERIALS

2.01 MANUFACTURER

Framework for color chain link fence systems shall conform to Ameristar® PermaCoat® PC-20™ (commercial weight), as manufactured by Ameristar® Fence Products in Tulsa, Oklahoma.

2.02 MATERIAL – STEEL FRAMEWORK

- A. The steel material used to manufacture Ameristar® PermaCoat® PC-20™ shall be zinc-coated steel strip, galvanized by the hot-dip process conforming to the criteria of ASTM A653/A653M and the general requirements of ASTM A924/A924M.
- B. The zinc used in the galvanizing process shall conform to ASTM B6. Weight of zinc shall be determined using the test method described in ASTM A90 and shall conform to the weight range allowance for ASTM A653, Designation G-90.
- C. The framework shall be manufactured in accordance with commercial standards to meet the strength (50,000 psi minimum yield strength) and coating requirements of ASTM F1043, Group IC, Electrical Resistance Welded Round Steel Pipe, light industrial weight.
- D. The exterior surface of the electrical resistance weld shall be recoated with the same type of material and thickness as the basic zinc coating.
- E. The manufactured framework shall be subjected to the PermaCoat® process, a complete thermal stratification coating process (multi-stage, high-temperature, multi-layer) including, as a minimum, a six-stage pretreatment/wash (with zinc phosphate), an electrostatic spray application of an epoxy base, and a separate electrostatic spray application of a polyester finish.
- F. The material used for the base coat shall be a (gray color) thermosetting epoxy; the minimum thickness of the base coat shall be two (2) mils. The material used for the finish coat shall be a thermosetting "no-mar" TGIC polyester powder; the minimum thickness of the finish coat shall be two (2) mils. The stratification coated pipe shall demonstrate the ability to endure a salt-spray resistance test in accordance with ASTM B117 without loss of adhesion for a minimum exposure time of 3,500 hours. Additionally, the coated pipe shall demonstrate the ability to withstand exposure in a weather-ometer apparatus for 1,000 hours without failure in accordance with ASTM D1499 and to show satisfactory adhesion when subjected to the cross-hatch test, Method B, in ASTM D3359. The polyester finish coat shall not crack, blister or split under normal use.
- G. The color of all framework shall be **Black** in accordance with ASTM F934.
- H. The strength of Ameristar® PermaCoat® PC-20™ shall conform to the requirements of ASTM F1043; the minimum weight shall not be less than 90% of the nominal weight (see Table 1). The strength of line, end, corner and pull posts shall be determined by the use of 4' or 6' cantilevered beam test. The top rail shall be determined by a 10' free-supported beam test (see Table 1). An alternative method of determining pipe strength is by the calculation of bending moment (see Table 1). Conformance with this specification can be demonstrated by measuring the yield strength of a randomly selected piece of pipe from each lot and calculating the section modulus. The yield strength shall be determined according to the methods described in ASTM E8. For materials under this specification, the 0.2 offset method shall be used in determining yield strength. Terminal posts, line posts and top/bottom rails shall be precut to specified lengths.

2.03 MATERIAL – FENCE FABRIC

- A. The material for chain link fence fabric shall be manufactured from galvanized steel wire. The weight of zinc shall meet the requirements of ASTM F668, Table 4. Galvanized wire shall be PVC-coated to meet the requirements of ASTM F668. The class of the fence fabric shall be **Class 2A - Extruded and Bonded**.
- B. Selvage: Top edge **knuckled** and bottom edge **knuckled**.
- C. Color: The coating color for the fence fabric shall be **Black**. Reference ASTM F668 and ASTM F934.
- D. Wire Size: The size of the steel wire core shall be **8 gauge**. (See Table 2); the finished size of the coated wire shall be **8 gauge** (See Table 2).

E. Height and Mesh Size: The fabric height shall be 6 (Six) feet high with a mesh size of 2 inches. (See Table 2).

2.04 MATERIAL – FENCE FITTINGS

The material for fence fittings shall be manufactured to meet the requirements of ASTM F626. The coating for all fittings shall be the same PermaCoat® color coating system required for the framework (see 2.02); the color of all fittings and fasteners shall be **Black** in accordance with ASTM F934. All fasteners shall be stainless steel.

2.05 MATERIAL – GATES

Swing gates shall be manufactured and coated to meet the requirements of ASTM F900. Slide gates shall be manufactured to meet the requirements of ASTM F1184. The color of all gates shall be **Black** in accordance with ASTM F934.

PART 3 – EXECUTION

3.01 PREPARATION

All new installation shall be laid out by the contractor in accordance with the construction plan.

3.02 INSTALLATION

Install chain link fence in accordance with ASTM F567. For chain link tennis court fences, install in accordance with ASTM F969. Fence posts shall be set at spacings of a maximum of 10' o.c. Gate posts shall be spaced according to the gate openings specified in the construction plans. The "Paving and Surfacing," "Cast-In-Place Concrete" and "Unit Masonry" sections of this specification shall govern post base placement and material requirements. Install fabric on security side and attach with wire ties or clip to line posts at 15 inches o.c. and to rails, braces and tension wire at 24 inches o.c.

3.03 CLEANING

The contractor shall clean the jobsite of excess materials. Post hole excavations shall be scattered uniformly away from posts.

TABLE 1

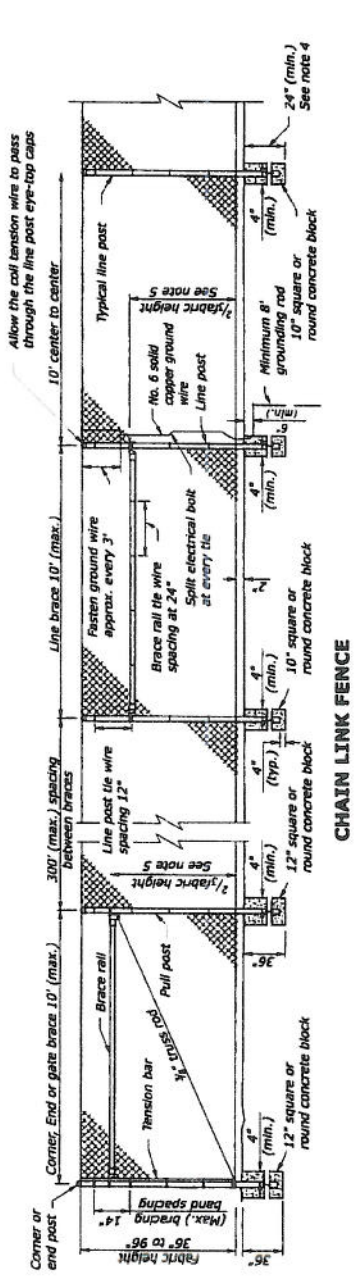
Fence Industry	Decimal O.D. Equivalent		Pipe Wall Thickness		Weight		Section Modulus Inches	x	Min. Yield Strength psi	=	Max. Bending Moment lb. in.	Calculated Load (lbs.)		
	O.D.	Inches	(mm)	Inches	(mm)	lb./ft.	(kg/m)					10' Free Supported	4' Cantilever	6'
1-3/8"	1.315	33.40	.080	2.03	1.06	1.57	.0900	x	50,000	=	4,500	150	N/A	N/A
1-5/8"	1.660	42.16	.085	2.16	1.43	2.13	.1574	x	50,000	=	7,870	262	164	109
2"	1.900	48.26	.090	2.29	1.74	2.59	.2208	x	50,000	=	11,040	N/A	230	154
2-1/2"	2.375	60.33	.095	2.41	2.32	3.45	.3734	x	50,000	=	18,670	N/A	389	259
3"	2.875	73.03	.111	2.82	3.26	4.85	.6365	x	50,000	=	31,825	N/A	663	442

TABLE 2

Finished Gauge	Finished OD (NOM)	Core Diameter (NOM)	PVC Coating Thickness	Mesh Sizes Available	Fabric Extrusion Type	Minimum Breaking Strength
8	162 (4 11 mm)	120 (3 05 mm)	015 - 025 (0 38 - 0 64 mm)	2 (50 mm); 1-3/4 (44 mm); 1 (25 mm)	CLASS 1, 2A	850#
9	148 (3 76 mm)	097 (2 46 mm)	015 - 025 (0 38 - 0 64 mm)	2 (50 mm); 1-3/4 (44 mm); 1-1/4 (32 mm); 1 (25 mm)	CLASS 1, 2A	650#

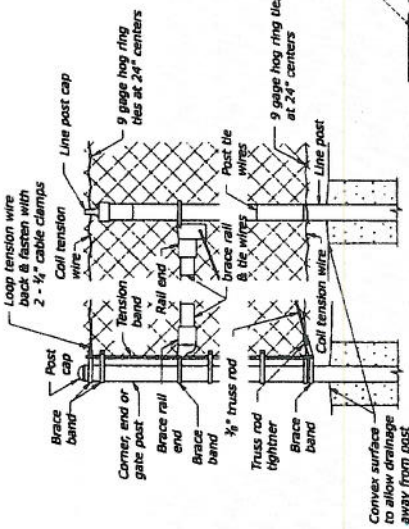
NOTE:

1. Metal post and rails shall conform to ASTM F 669.
2. Use Type 1 requirements from the chain link fence table unless otherwise specified in the special contract requirements.
3. Set all posts in concrete. Set corner, end, pull posts to the dimensions shown. Minimum increase depth 3" for each additional foot of fence height over 4 feet.
4. Install braces on all terminals on fences without a top rail. No braces are required on fabric 6 feet in height or less where a top rail is specified. Install braces where fabric is over 6 feet in height. Where a top rail is used, attach the brace at the halfway point of the terminal post above grade and, where the rail is omitted, at the two-thirds point above grade. Do not install top rail unless so specified in the special contract requirements.
5. Adjust the post top elevations to provide a smooth visual fence profile. Install corner posts at horizontal breaks in the fence of 15° or more.
6. If alternate steel posts are used, provide fastening attaching hardware compatible with the post sizes and styles selected.
7. Provide fence fabric with a 2" mesh. Use 11 gauge wire in fabric heights of 48 inches or less and 9 gauge wire in fabric heights greater than 48 inches. Provide a Class D coating when zinc-coated steel fence fabric is provided. Fabric height shall be 72 inches or higher. For fabric 72 inches or higher, knuckle one selvage and twist the other.
8. See Detail Sheet 1 of E619-09 for hardware and gate requirements.



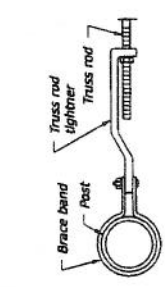
CHAIN LINK FENCE

POST SIZE AND WEIGHT TABLE	ROUND PIPE		HOT ROLLED H-SHAPE		ROLLED FORMED	
	Steel	Aluminum	Steel	Steel	Steel	Steel
DESCRIPTION	FENCE TYPE		Minimum Yield strength psi		Size and mass	
	Type 1	Type 2	25,000	45,000	25,000	45,000
Brace rail	Type 1		dia. inch	mass lbs/ft	dia. inch	mass lbs/ft
	Type 1	Type 2	1.66	2.27	1.66	2.27
End, corner & pull post	Type 1		dia. inch	mass lbs/ft	dia. inch	mass lbs/ft
	Type 1	Type 2	2.375	3.65	2.375	3.65
Line post	Type 1		dia. inch	mass lbs/ft	dia. inch	mass lbs/ft
	Type 1	Type 2	2.375	3.65	2.375	3.65
End, corner & pull post	Type 1		dia. inch	mass lbs/ft	dia. inch	mass lbs/ft
	Type 1	Type 2	2.375	3.65	2.375	3.65



CHAIN LINK DETAIL

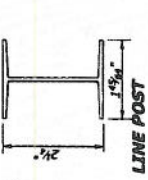
CHAIN LINK FENCE TIE DETAIL



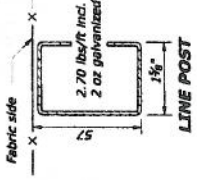
TRUSS ROD TIGHTNER DETAIL



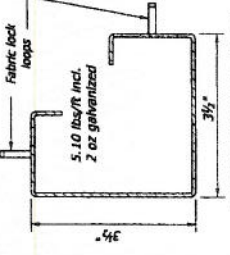
WIRE SELVAGE DETAIL



LINE POST



LINE POST



END OR CORNER POST



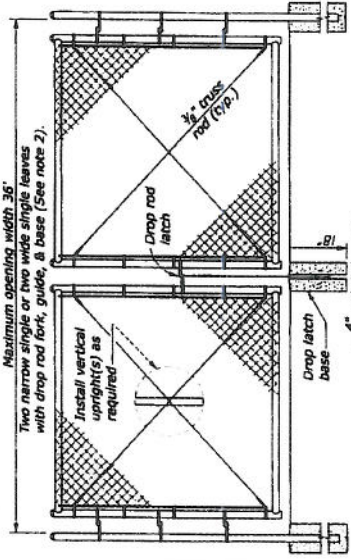
TOP & BRACE RAIL

ALTERNATE STEEL POST & BRACE SECTIONS

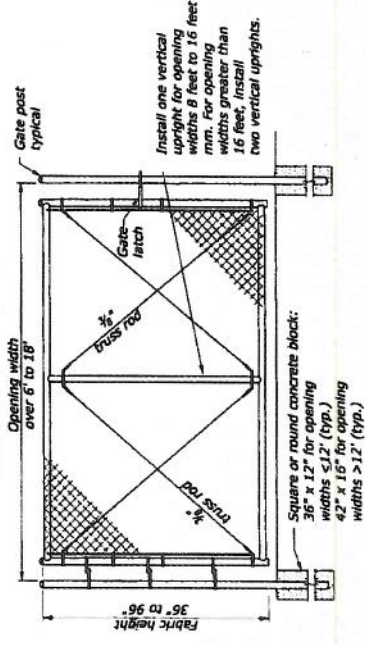
NO SCALE

NOTE:

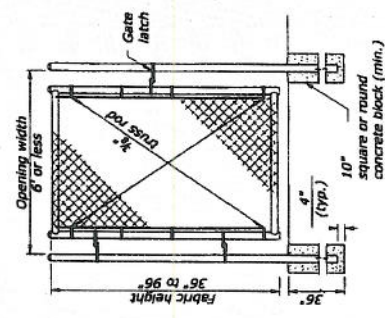
1. Reinforce the gate frame corners with a malleable iron or pressed steel fitting designed for the purpose or shop weld the corners. Grind smooth all welds and paint with an approved zinc rich paint. Furnish each gate with the necessary hinges, latch, and drop rod locking device designed for the type of gate posts and gate used on the project. Provide positive type latching devices with provisions for pad locking at all gates. Provide keepers to retain the gate in the open position.
2. Approved alternate gate frames constructed of steel sections, other than pipe, may be used.
3. The design of the chain link hardware may vary from the details shown, however, all hardware and materials used in a single installation shall be uniform and compatible.



DOUBLE LEAF GATE



WIDE SINGLE LEAF GATE



NARROW SINGLE LEAF GATE

CHAIN LINK GATE POST AND FRAME SIZE AND WEIGHT TABLE

GATE LEAF WIDTHS	STEEL		ALUMINUM		STEEL	
	dia. inch	lb/ft (min.)	dia. inch	lb/ft (min.)	dia. inch	lb/ft (min.)
6 feet or less	2.875	4.64	2.875	1.94	2.875	4.64
Over 6 feet to 12 feet	4.000	8.65	4.000	2.99	4.000	6.56
Over 12 feet to 18 feet	6.625	18.02	---	---	---	---
Outside frame member	1.900	2.38	1.900	0.91	1.900	2.28
Interior bracing member	1.660	1.83	1.900	0.91	1.660	1.84

HARDWARE ITEM DESCRIPTION	STANDARD REQUIREMENTS
Brace rail and top rail	See table on Detail E619-09, Sheet 1
Line post	See table on Detail E619-09, Sheet 1
Corner, end and pull posts	See table on Detail E619-09, Sheet 1
Post cap	Cast non-ferrous alloy or galvanized pressed steel cap must fit snugly on post and gate top
Line post cap	Galvanized pressed steel minimum 1/8" thickness or galvanized malleable ferrous alloy
Tension band	Minimum 1/8" x 1/4" galvanized steel
Brace band	Minimum 1/8" x 1/4" galvanized steel
Band bolt	Minimum 1/8" x 1 1/4" galvanized carriage bolt, (Lock washer & flat washer for each band)
Rail end	Galvanized pressed steel or galvanized malleable ferrous alloy minimum 1/8" thickness on back bolting appendage
Brace rail end	Galvanized pressed steel or galvanized malleable ferrous alloy minimum 1/8" thickness on back bolting appendage
Truss rod bightener	Minimum 1/2" formed galvanized steel
Truss rod	1/8" galvanized, ac threaded rod, lock washer, & flat washer with two 90° bends opposite of threaded end
Top rail sleeve	Galvanized steel 0.051" minimum thickness by 6" minimum length
Tension bar	Minimum 1/8" x 1/4" galvanized steel
Fence fabric	2" diamond mesh fabric, See note no. 7 on Detail E619-09, Sheet 1
Tie wires	Minimum 9 gage aluminum with one hooked end
Coll tension wire	0.177" minimum diameter metallic coated wire
Gate latch	Minimum 1/8" galvanized pressed steel or malleable ferrous alloy, 1 latch per each single gate with bent minimum 1/8" attachment bolt, washer & nut.
Frame hinge	Minimum 1/8" galvanized pressed steel with 2 - 1/8" U-bolts, lockwasher & nuts per hinge. Use 2 hinges per gate leaf up to 8' in width and 3 hinges per gate leaf widths greater than 8'.
Drop rod latch & guide	Minimum 1/8" galvanized pressed steel. Drop rod guide includes 1/8" x 3" carriage bolt with lock washer & nut. Weld drop rod fork to rod & paint with an approved zinc rich paint.

Bid Schedule
VITEMA Security Fence Installation
St. Thomas, Virgin Islands

The undersigned contractor proposes to furnish all labor, equipment, machinery, materials and contingencies for the completion of the VITEMA Security Fence Installation at 8221 Nisky as outlined on the contract specifications and Scope of Work. All works shall meet the conditions and regulations of the IBC, VI Building, and FP 03 Codes.

<u>No.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>QTY.</u>	<u>UNIT PRICE</u>	<u>UNIT PRICE IN WORDS</u>	<u>TOTAL</u>
1	Mobilization	LS	1			
2	Site Preparation - Clearing and Grubbing, Grading and miscellaneous disposals within construction limits per Division 200 of FP 03.	LS	1			
3	Install new 6 FT. PermaCoat PC-20 Black Chain Link Framework - Commercial Weight with concrete footings per manufacturers specifications VI building Code, the Plans and Specifications 32 31 13.	LF	470			
4	Gate 4 ft. Pedestrian Installed	EA	1			
TOTAL (NUMBERS): _____						
TOTAL (WORDS): _____						
CONTRACTOR'S NAME: _____						
CONTRACTOR'S SIGNATURE: _____						

GOVERNMENT OF THE VIRGIN ISLANDS OF THE UNITED STATES

DEPARTMENT OF PUBLIC WORKS VIRGIN ISLANDS TERRITORIAL EMERGENCY MANAGEMENT AGENCY (VITEMA) SECURITY FENCE AND LIGHTING INSTALLATION PROJECT

DESCRIPTION OF PROJECT:
NEW SECURITY FENCE INSTALLATION ON THE PROPERTY
BOUNDARY

PROJECT LENGTHS:
~500 Linear Feet

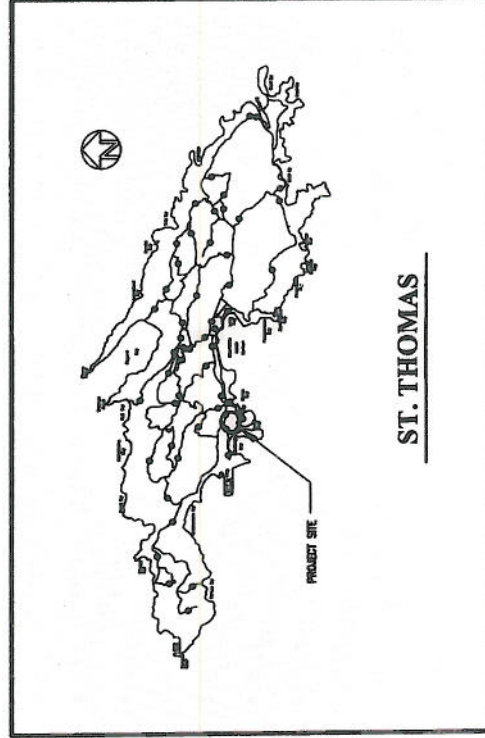
SHEET INDEX
1 OF 3
2 OF 3
3 OF 3
COVER SHEET
PROJECT FENCE
PROJECT LIGHTING
PROJECT ELEVATION

SHEET	DATE	PROJECT	NO.	TOTAL
377	VI		1	3



LOCATION MAP

SPECIFICATIONS:
Fence and Lighting to be installed in accordance with the
Federal Highway Project, F-30 U.S. Customary Unit,
VI Building Code



VICINITY MAP

DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS 804 S.W. 8th Ave. ST. THOMAS, VI 00801	
APPROVED: [Signature] [Name] [Title]	APPROVED: [Signature] [Name] [Title]
DESIGNED BY: [Signature] [Name] [Title]	DATE: 7/1/83

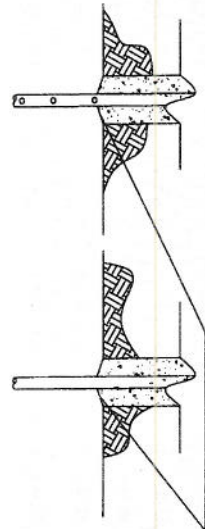
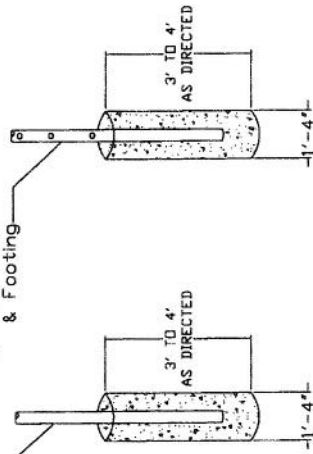
ZONING IS R-4
PLAN REFERENCES:
C9-301-787



 DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING ST. THOMAS, U.S. VIRGIN ISLANDS	VIRGIN ISLANDS TERRITORIAL EMERGENCY MANAGEMENT AGENCY (VTEMA) Security Fence and Lighting Installation Project		CHIEF ENGINEER _____ PROJECT DESIGNER _____		SURVEYOR _____ SCALED: 1"=40' DATE: _____		D.P.W. FILE NO. _____ DIVISION OF ENGINEERING		PROJECT NO. _____ JOB RL NO. _____		SHEET NO. 2 of 3	
	CONSTRUCTION OF D.P.W. CONSTRUCTION OF ST. THOMAS CONSTRUCTION OF ST. THOMAS		CHIEF ENGINEER _____ PROJECT DESIGNER _____		SURVEYOR _____ SCALED: 1"=40' DATE: _____		D.P.W. FILE NO. _____ DIVISION OF ENGINEERING		PROJECT NO. _____ JOB RL NO. _____		SHEET NO. 2 of 3	

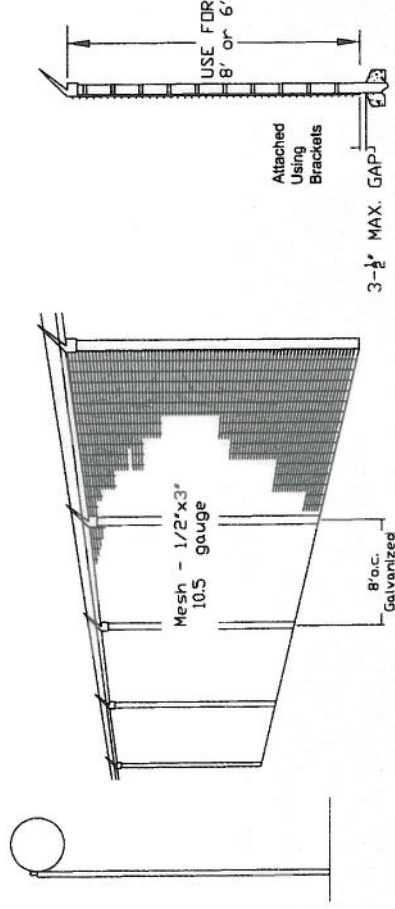
4" Diameter Terminal
Post & Footing

3" Line Post
& Footing



Convex surface
to allow drainage
away from post

Razor & Barb Wire



POST FOOTING

N.T.S.

RAZOR & BARB WIRE ELEVATION

N.T.S.

	DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING ST. THOMAS, U.S. VIRGIN ISLANDS		Virgin Islands Territorial Emergency Management Agency (VITEMA) Security Fence and Lighting Installation Project		COMMISSIONER OF D.P.W. _____ DATE: _____	CHIEF ENGINEER _____ DATE: _____	DRAWN BY: J.B.A. PROJECT DESIGNER _____ DATE: _____	D.P.W. FILE NO. _____ DIVISION OF ENGINEERING	PROJECT NO. _____ FOR FILE NO. _____	SHEET NO. 3 of 3